

# TRB POLICY AND ORGANIZATION GROUP

## Annual Report of Committee Activities

Each year, TRB staff fills in items below from TRB databases for committee review and editing. The committee chair submits the Annual Report to the Section Chair by March 1 of each year.

**Committee Name and Number: Transportation Asset Management (ABC40)**

**Committee Chairperson: Sue McNeil**

**Year: 2005**

**1. Current Committee Scope:** The committee brings together practitioners and researchers to consider current asset management practice across all transportation modes, develops research needs, and encourages dialog and wide dissemination of information through meetings, workshops, conferences, and publications. Asset management is a systematic process for maintaining, upgrading and operating the physical assets of the transportation system by employing engineering principals, economic theory, sound business practice, and information systems to determine optimal short and long-term resource allocations. The committee recommends how the topic can best be addressed within TRB.

**2. Committee Membership** (*See member distribution chart attached.*)

- A. Number of members at current time.
  - 1. Total 24
  - 2. Young 0
  - 3. Emeritus 0
  - 4. International 2

**3. Paper Review:**

- A. Number of papers reviewed during the last year 10
- B. Number of papers recommended for publication 2

**4. Annual Meeting Sessions Sponsored** (*Lists of sessions for the last year are attached.*)

- A. Number of paper or conference sessions at the last annual meeting 2
- B. Number of workshop sessions at the last annual meeting 1
- C. Number of poster sessions at the last annual meeting 0
- D. Number of co-sponsored sessions at the last annual meeting 3
- E. Number of published meetings at the last annual meeting 1
- F. Number of unpublished meetings at the last annual meeting 0

5. **Research Problem Statements** (*Problem statements submitted in last year are attached.*)

A. Number of problem statements submitted last year \_\_\_\_

6. **List of Critical and Cross-Cutting Issues** (*Issues the committee plans to address are attached.*)

7. **Other Activities Sponsored During the Last Year:**

The committee was involved in completing the proceedings of the 4th National Transportation Asset Management Conference. Although these were not official TRB proceedings, the conference was a TRB event. The proceedings can be found at <http://www.mrutc.org/outreach/FinalReport5thNTAM.pdf>. The committee also initiated planning for the November 2005 conference.

8. **Appendix – Annual Meeting Sessions:**

## ABC40 - Transportation Asset Management

### Paper or Conference Sessions

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**351** (CFS05-014)

Monday, January 10, 2005, 3:45pm- 5:30pm, Hilton, Cabinet

#### **Mainstreaming Asset Management**

Ernie Wittwer, Wisconsin Transportation Center, presiding

*Sponsored by Committee on Transportation Asset Management (ABC40)*

Exploring key issues of moving Asset Management principles into practice.

#### **Linking Asset Management to Strategic Planning Processes: Best Practices from State DOT's** (05-0660)

Anthony M. Pagano, University of Illinois at Chicago

Sue McNeil, University of Illinois, Chicago

Elizabeth Ogard, Tioga Group

#### **Portland Asset Management: Moving from Measurement to Strategic Management** (05-1458)

Patricia Bugas-Schramm, Portland Transportation Maintenance

Jeanne Nyquist, Portland Transportation Maintenance

#### **A Comparative Analysis of Asset Valuation Methods** (05-2037)

Lynne Cowe Falls, University of Calgary, Canada

Ralph Haas, University of Waterloo, Canada

Susan L. Tighe, University of Waterloo, Canada

#### **Risk-based Life Cycle Cost Analysis of Privatized Infrastructure** (05-0255)

Hesham Maged Osman, University of Toronto, Canada

**624** (CFS05-048)

Wednesday, January 12, 2005, 8:00am- 9:45am, Hilton, Cabinet

#### **Asset Management Technology Transfer and Training**

Omar Smadi, Iowa State University, presiding

*Sponsored by Committee on Transportation Asset Management (ABC40)*

This session covers the training and technology transfer aspects of asset management systems. The panel presentations include state specific experiences, existing courses, and technology transfer.

**Available Training** (P05-0586)

Hyun-A Park, Cambridge Systematics, Inc.

**Technology Transfer Opportunities and Examples** (P05-0590)

Doyt Younger Bolling, Utah State University

**A Canadian Perspective** (P05-0628)

Noris Bot, Ontario Ministry of Transportation, Canada

## Published Meetings

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**ABC40** (CFM05-013)

Tuesday, January 11, 2005, 1:30pm- 5:30pm, Hilton, Exhibit Hall 2

**Committee on Transportation Asset Management**

Sue McNeil, University of Illinois, Chicago, presiding

*Sponsored by Committee on Transportation Asset Management (ABC40)*

## ABC40 Cosponsored Sessions (only editable by the primary committee sponsor)

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**CFS05-041**

Monday, January 10, 2005, 3:45pm- 5:30pm, Hilton, Jefferson West

**Asset Management Across the Modes**

David R. Geiger, Federal Highway Administration, presiding

*Sponsored by Committee on Policy and Organization (AB000); Committee on Transportation Asset Management (ABC40)*

Organizations approach asset management with different goals and objectives and with different tools already in place. This session highlights the perspectives of five organizations.

**Asset Management: State Department of Transportation Perspective** (P05-0516)

Gary L. Hoffman, Pennsylvania Department of Transportation

**Integrating Asset Management Systems** (P05-0652)

John F. Deatrick, District of Columbia Department of Transportation

**Managing Assets in Union Pacific Railroad's Asset-Intensive Operation** (P05-0518)

Thomas Haley, Union Pacific Railroad

**Asset Management for Many Modes** (P05-0519)

Jean F. Backes, Port Authority of New York and New Jersey

**Asset Management: Transit Perspective** (P05-0520)

Judy Riley, King County Metro Transit

**TPP05-002**

Monday, January 10, 2005, 9:30am-12:00pm, Hilton, International Center

**What's the Picture? Graphics to Communicate Performance Measures and Data**

Timothy J. Lomax, Texas Transportation Institute; Anita Vandervalk, Cambridge Systematics, Inc., presiding

*Sponsored by Committee on Statewide Transportation Data and Information Systems (ABJ20); Committee on Performance Measurement (ABC30); Committee on Transportation Asset Management (ABC40); Committee on Spatial Data and Information Science (ABJ60)*

The concepts of performance-based planning and asset management are critical components of planning and operations in transportation agencies. Visual depictions of conditions and performance characteristics are rapidly evolving with better and more easily used tools such as geographic information systems and video displays. This poster session features "killer" graphics and visual approaches that are used to communicate data, illustrate analytical findings, make decisions, and allocate resources.

**Tools to Track Snow and Ice Event Response** (P05-0123)

Mark C. Larson, Minnesota Department of Transportation

**Communicating Performance Measures Through Microsimulation** (P05-0124)

James Dale, PTV America

**Impact of Maintenance and Rehabilitation Strategies on Pavement Network Value** (P05-0147)

Carlos Chang, Texas Transportation Institute

**Freeway Performance Measure Reporting Formats in Maricopa County** (P05-0148)

William L. Eisele, Texas Transportation Institute

Shawn M. Turner, Texas Transportation Institute

Mark Schlappi, Maricopa Association of Governments

**Communicating Performance Measures to Elected Officials: Montgomery County's New Annual Development Approval and Congestion Report** (P05-0149)

Robert M. Winick, Motion Maps, LLC

Richard I. Roisman, Maryland National Capital Park and Planning Commission

**Effectively Communicating System-Level Performance Information** (P05-0434)

Edward Strocko, Maryland Department of Transportation

Marsha J. Kaiser, Maryland Department of Transportation

**Nationwide Congestion at a Glance: Urban Congestion Report Executive Summary** (P05-0436)

Soojung Jung, Mitretek Systems Inc.

Karl Wunderlich, Mitretek Systems Inc.

**Performance-Based Roadway Asset Management in District of Columbia: Visual Display of Progress** (P05-0437)

Mark D. Robinson, Science Applications International Corporation

Eloisa Tigre Raynault, Science Applications International Corporation

Simon Rennie, District of Columbia Department of Transportation

**Statewide Multimodal Transportation System** (P05-0438)

Joseph L. Mattingly, Brotherhood of Railroad Signalmen

**Performance Measures in the Twin Cities** (P05-0439)

Carol Baker, Metropolitan Council

**High-Level Performance Measures Lessons in the Transportation Realm** (P05-0443)

Danny Jiji, Port Authority of New York and New Jersey

**Truck Freight Monitoring in Urban Areas** (P05-0444)

Edward McCormack, University of Washington

Mark E. Hallenbeck, University of Washington

**Performance Measurement of Highways in Alberta, Canada: Condition and Functional Adequacy** (P05-0453)

Roy Jurgens, Alberta Transportation, Canada

**Communicating Highway System Performance: Washington State Department of Transportation's Approach to Graphics** (P05-0454)

Daniela Bremmer, Washington State Department of Transportation

**Pennsylvania's Highway Performance Monitoring System Program** (P05-0456)

Laine Heltebride, Pennsylvania Department of Transportation

**Pennsylvania's Traffic Data Collection Partnerships** (P05-0458)

Kim Ferroni, Pennsylvania Department of Transportation

**Managing Pennsylvania's Permanent Traffic Monitoring Sites** (P05-0460)

Gaye Liddick, Pennsylvania Department of Transportation

**Investment Trade-offs: Asset Manager Network Tool and Program Tool (NCHRP Project 20-57)**

(P05-0669)

Frances D. Harrison, Cambridge Systematics, Inc.

**Florida's Strategic Intermodal System** (P05-0782)

Terry Kraft, Florida Department of Transportation

James W Golden, Florida Department of Transportation

John Kaliski, Cambridge Systematics, Inc.

Brian ten Siethoff, Cambridge Systematics, Inc.

**Arizona's MoveAZ Tool** (P05-0785)

Hugh Louch, Cambridge Systematics, Inc.

Stephen Decker, Cambridge Systematics, Inc.

**New Performance Ranking Method for Ports Based on Data Envelopment Analysis** (05-1189)

Ming-Tao Chou, Chang Jung Christian University, Taiwan

Hsuan-Shih Lee, National Taiwan Ocean University

**Assessing the Performance of a Statewide Multimodal Transportation System** (05-2392)

Stephen Mattingly, University of Texas, Arlington

Phong Vo, University of Texas, Arlington

Isaradatta Rasmidatta, University of Texas - Arlington

James C. Williams, University of Texas - Arlington

**TPW05-002**

Sunday, January 9, 2005, 1:30pm- 5:00pm, Hilton, Lincoln West

**Location Management for Transportation Data Integration: Current Best Practices**

Jack R. Stickel, Alaska Department of Transportation and Public Facilities; Bobby R. Harris, GIS/Trans Ltd, presiding

*Sponsored by Committee on Spatial Data and Information Science (ABJ60); Committee on Statewide Transportation Data and Information Systems (ABJ20); Committee on Information Systems and Technology (ABJ50); Committee on Transportation Asset Management (ABC40)*

Transportation data practitioners need to plan the spatial enabling of their transportation assets and integration of the data locations into their enterprise environment. Disparate data sets, which include video, documents, aerial remote sensing, and historical legacy data, all have data quality and location management issues. This workshop explores best practices for location management of transportation data integration, which includes dealing with data resolution across disparate data sets, managing location descriptions that may vary, understanding the data accuracy and quality limitations on data integration, handling the differences in transportation and network data quality considerations, appreciating how metadata should support data quality considerations, and envisioning and planning for location management improvements with time.